SETUP GUIDE



Software Release 6





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Scala Service Program maintenance agreement Renewal

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- C. Customer acknowledges and agrees that Customer is solely responsible for the acquisition and maintenance of the computer hardware, firmware, telecommunications, and information technology systems necessary to use and operate the Software. The Software documentation includes information regarding recommended Customer hardware and software configurations for operation of the Software, and SCALA and/or the Support Organization may provide advice regarding appropriate operating system(s) configuration for use of the Software. NEITHER SCALA NOR ANY SUPPORT ORGANIZATION SHALL BE RESPONSIBLE FOR CORRECTING ERRORS OR MALFUNCTIONS OF THE SOFTWARE OR SOFTWARE UPGRADES RELATED TO OR ARISING AS A RESULT OF CUSTOMER'S FAILURE TO MAINTAIN COMPUTER SYSTEMS ADEQUATE TO OPERATE THE SOFTWARE, OR CUSTOMER'S USE OR OPERATION OF HARDWARE OR SOFTWARE SYSTEMS THAT ARE INCOMPATIBLE WITH OR DEGRADE THE PERFORMANCE OF THE SOFTWARE.

5. Software Support

- A. The Support Organization will provide telephone and/or modem and/or facsimile and/or electronic mail support for problems associated with the routine use and operation of the software. This service is intended for users who have been trained in the Software and is not to be used as a substitute for basic training. The Scala Value Added Reseller ("VAR") shall be the Support Organization for first level Software Support. SCALA shall provide second-level support and shall also provide first-level Software Support in the event the VAR/Support Organization fails or refuses to provide first-level support. If the Software Support staff feels a customer is abusing the Software Support services, SCALA will notify the Customer in writing and suggest appropriate training, on-site assistance or other alternatives to meet the Customer's needs. SCALA reserves the right to qualify all customer sites before accepting an Agreement, and to refuse to provide Software Maintenance Services, or to adjust the fee based on the environment (hardware or operating systems) and/or age of the product(s) and current status of the product(s) respectively.
 - (i) The Support Organization will diligently investigate problems reported by the Customer. Subject to the exceptions set forth at Sections 4(C) and 6, if the Support Organization determines that the problem is the result of a reproducible error, defect, or malfunction in the supported Software, the Support Organization will make reasonable efforts to correct the problem. A Support Organization representative will provide Customer with a correction, a report/determination that further research is required, or confirmation that the system works per design specifications.
 - (a) If a reproducible error is not correctable, a Software performance report will be generated and sent to SCALA's engineering group. The correction for the error would be incorporated in the next release or software updates, if possible.
- A. Customer is responsible for informing SCALA of the problem severity. Customer is encouraged to call the Support Organization for clarification or uncertainty as regards to Software. More severe problems will be given priority over general questions.
- B. The Customer shall provide to the VAR or Support Organization the name and contact information of one (1) representative of Customer who, with SCALA's acknowledgement, shall have access to the Support Organization's telephone advice service. The representative may be changed from time to time by Agreement between the parties. The initial representative shall be as determined by Customer and communicated to the VAR or Support Organization during the Software registration process.
- C. All services to be provided under this Agreement shall be provided Monday through Friday, excluding public holidays) between the hours of:

In the U.S. 9:00 a.m. to 5:00 p.m. EST In Europe 9:00 to 17:00 CET

Service coverage required outside of these hours may be arranged by agreement with the Support Organization.

6. Services Not Covered

The following services are not covered by this Agreement:

- A. Maintenance of facilities external to the Software; hardware support; questions regarding hardware installation, support or maintenance, telecommunications systems.
- B. Repair or damage resulting from malfunction of electrical power or heating, ventilation and air conditioning; water damage; fire damage; theft; integration of the Software with non-compatible systems or software, misuse or improper use of the Software (including without limitation any use not specifically authorized in the Software license agreement, documentation or manuals); vandalism; civil commotion or war; or any combination thereof.
- C. Support or Maintenance Services for altered or modified Software other than that altered or modified by SCALA and/or authorized agents of SCALA; or support versions of Software that have been superseded by a new release (provided that SCALA will continue to support superseded versions for a reasonable period, not to exceed forty-five (45) days, sufficient for Customer to implement the newest version).
- D. Supervision of repairs on associated equipment.

7. Customer Responsibilities

- A. The Customer must have a valid license to use the Software from SCALA and be in material compliance with the terms and conditions of such license.
- B. The Customer must be current in its payment obligations under this Agreement.
- C. The Customer shall notify the Support Organization of any Software problem together with complete information concerning the failure, as soon as possible after the problem has occurred.
 - (i) The Customer shall provide as accurate and complete a description as possible to the Support Representative. The customer shall assist in problem resolution by providing copies of reports and/or files deemed necessary by the Support Services group.
- D. The Customer will provide the Support Organization with the following:
 - (i) Name of nominated personnel (and their location) who are competent to use the Software;
 - (ii) Access to the Software and computer(s) on which it resides;
 - (iii) Adequate working facilities (such as communication devices/modems);
 - (iv) Access to and use of all information reasonably necessary to service the Software;
 - (v) The Customer shall be responsible for security of its confidential, proprietary and classified information as well as for the maintenance of adequate backup procedures for files, as SCALA will not be responsible for loss of or altered files, data or programs;
 - (vi) The Customer agrees to provide a safe and secure installation environment which meets the specified requirements of the computer system(s) on which the Software is running, including without limitation environmental controls, electric supply, service clearances, cable runs and, in the event that the Support Organization agrees to send personnel to the Customer's premises, safety of the Customer's and the Support Organization's personnel; and.
 - (vii) The Customer agrees to limit use of the Software Maintenance Services that are the subject of this Agreement to occasions when the Software fails to work as set forth in the user manuals or occasions where the user manuals are unclear.

8. Service Charges

- A. Annual Maintenance Services for the Initial Period shall be provided without charge to Customer. Thereafter, Customer may elect to renew Maintenance Services for additional annual periods at SCALA's then-current standard annual fee for Maintenance Services. Annual fees may be invoiced thirty (30) days prior to the expiration of the previous period.
- B. On-site service shall be provided at the reasonable discretion of the Support Organization. If onsite service is designated by SCALA as required or customer requested of which the Software is located at a distance beyond fifty miles (50 miles) from the Support Organization's office, a travel charge may be assessed by the Support Organization upon notice to and approval of Customer.

9. Changes or Waivers to Software Maintenance Agreement

- A. During the term of the Agreement no changes and/or waivers by either party of its rights shall be made to the term and conditions contained herein other than by variation agreed to by authorized representatives of both parties and set forth in a writing duly executed by the parties. The non-enforcement or waiver of any provision of this Agreement on any occasion shall not constitute a waiver of such provision on any other occasions unless expressly so agreed in writing. It is agreed that no use of trade or other regular practice or method of dealing between the parties hereto shall be used to modify, interpret, supplement, or alter in any manner the terms of the Agreement.
- B. SCALA has the right to vary the charges made hereunder if the Customer wishes to extend the service hours beyond normal working hours referred to in Clause 5.
- C. If both parties agree in writing, additional Software to be supported may be included on this Agreement at a later date. The initial maintenance fee for the cost of supporting the additional Software will be prorated from the new Commencement Date to the original Initial Period or Renewal Term end date. An addendum form (attached) will be used to convey the additional Software to be included under this Agreement. The addendum form will be referred to as the "Addendum Page".

10. Non-Payment

The Support Organization reserves the right to decline to provide Software Maintenance if any amounts invoiced by the Support Organization have not been paid by the Customer as set forth in the customers' approved credit terms.

11. Extraordinary Expenses

The Support Organization reserves the right to charge for unusual or excessive telephone, shipping, handling, media or user manual expenses in connection with the Software Support to be provided hereunder. In all cases, the Support Organization will notify the Customer of these costs in advance.

12. Assignment

Customer may not assign this Agreement to a third party without the prior written consent of SCALA, which consent may be withheld in SCALA'S sole discretion. SCALA may assign or delegate its rights and responsibilities hereunder to a third party Support Organization upon notice to Customer, and may freely assign its rights and obligations hereunder in connection with the merger, acquisition or sale of all or substantially all of the assets of SCALA.

13. Force Majeure

SCALA shall not be responsible or liable for failure to perform or observe, or for delay in performing or observing any obligation under this Agreement where such failure or delay arises from any cause beyond the control of SCALA or the Support Organization (as applicable), including, but not limited to, strikes, lockouts, industrial action, acts of God, insurrection, terrorism, or civil commotion, or any other cause beyond the reasonable control of SCALA or the Support Organization (as applicable).

14. Limited Warranty

SCALA shall perform its services hereunder in a workmanlike manner. In the event that it is established to SCALA's satisfaction that any Software Maintenance or other service carried out by SCALA or a third party Support Organization under this Agreement was defective, Customer's sole remedy shall be the reperformance of such services without cost to the Customer. Notwithstanding the functionality or performance of any addition or release of error corrections, enhancements, or new releases to the Software

program(s) in connection with the Maintenance Services, SCALA's obligation to correct errors in such additional releases shall be limited to the maintenance terms of this Agreement. EXCEPT AS EXPRESSLY SET FORTH IN THIS PARAGRAPH, SCALA SHALL HAVE NO LIABILITY FOR THE SOFTWARE OR ANY SERVICES PROVIDED, INCLUDING ANY LIABILITY FOR NEGLIGENCE; SCALA MAKES AND CUSTOMER RECEIVES NO WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, EXCEPT AS EXPLICITLY SET FORTH IN THIS AGREEMENT. SCALA SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

15. Limitation of Liability

Laws from time to time in force in the jurisdiction where any services are to be performed hereunder may imply warranties or liabilities which cannot be excluded or which can only be excluded to a limited extent. In which case, SCALA hereby limits its liability to the extent permitted by law. If SCALA cannot exclude or limit any warranty implied by law, this Agreement shall be read and construed subject to such statutory provisions. SCALA'S MAXIMUM LIABILITY TO CUSTOMER HEREUNDER SHALL BE LIMITED TO THE AMOUNTS ACTUALLY PAID BY CUSTOMER FOR THE MAINTENANCE SERVICES. SUBJECT TO THIS CLAUSE UNDER NO CIRCUMSTANCES WILL SCALA OR ITS RELATED PERSONS BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, SPECIAL, PUNITIVE, OR INCIDENTAL DAMAGES, WHETHER FORESEEABLE OR UNFORESEEABLE, BASED ON CLAIMS OF CUSTOMER OR ITS CUSTOMERS, INCLUDING, BUT NOT LIMITED TO, CLAIMS FOR LOSS OF DATA, GOODWILL, PROFITS, USE OF MONEY OR USE OF THE SOFTWARE. INTERRUPTION IN USE OR AVAILABILITY OF DATA, STOPPAGE OF OTHER WORK OR IMPAIRMENT OF OTHER ASSETS, ARISING OUT OF BREACH OF EXPRESS OR IMPLIED WARRANTY, BREACH OF CONTRACT, MISREPRESENTATION, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, EXCEPT ONLY IN THE CASE OF PERSONAL INJURY WHERE AND TO THE EXTENT THAT APPLICABLE LAW PROHIBITS EXCLUSION OF SUCH LIABILITY. IN NO EVENT WILL THE AGGREGATE LIABILITY WHICH SCALA AND ITS RELATED PERSONS MAY INCUR IN ANY ACTION OR PROCEEDING ARISING OUT OF PERFORMANCE OR NON PERFORMANCE OF THIS AGREEMENT EXCEED THE TOTAL AMOUNT ACTUALLY PAID TO SCALA BY CUSTOMER FOR THE SPECIFIC PRODUCT OR SERVICE THAT DIRECTLY CAUSED THE DAMAGE.

16. Applicable Law

This Agreement shall be governed and construed in accordance with the laws of the Commonwealth of Pennsylvania, without regard to its conflict of laws provisions.

17. Entire Agreement

This Agreement constitutes the entire agreement between the parties in respect of the Maintenance Services and supersede all proposals or prior agreements, whether oral or written, and all other communications between the parties relating to the subject matter hereof.

18. Notices

Any notice permitted or required under this Agreement shall be deemed given if in writing and personally served or sent by pre-paid registered or certified air mail, or by confirmed telex or facsimile, addressed (or as either Party may direct otherwise in writing) to the parties at the addresses provided during the Software registration process, marked for the attention of the Managing Director (in the event the Customer is a company).

Any notice given in accordance with this clause shall be deemed to be received by and served upon the other party on the date such airmail letter would in the ordinary course of post have reached such address or on the date such notice is served or left at the relevant address (as appropriate) and in the case of telex or facsimile shall be deemed to have been served on the day following the date of successful transmission.

19. Severability

If any term, provision, covenant or condition of this Agreement is held by a court of competent jurisdiction to be invalid, void or unenforceable, it shall be severed herefrom and the remaining provisions of this Agreement will remain in full force and effect and will not be affected, impaired or invalidated.

Customer understands and agrees that the Software Maintenance Agreement fee is non-refundable.



On each Player machine in your InfoChannel network, the InfoChannel Player 3 software must be installed and configured.

The configuration on the Player end is complementary to the Network Manager Player definition, identifying the folder that the Player refers to for its job files. You make settings within the Player software governing how the Player physically accesses its folder on the Network Manager end, as well as playback-related settings.

Outside the Player software, in Windows, there are further configuration tasks to enable the Player and Network Manager to communicate securely and reliably.

Using the InfoChannel Player Configuration utility

The InfoChannel Player Configuration utility is the tool you use to set up the InfoChannel Player software on a Player machine. Every Player in an InfoChannel Network must be individually configured using this utility.

Configuration of Player machines should be done after the definition of the Players in the Network Manager application.

This chapter discusses configuring Players for all types of connections: Direct FTP, Custom, and Broadcast.

For Players that communicate via a Custom connection, the factors to consider are more advanced. Settings for Custom connections are covered in a separate section of this booklet, "Setup of Custom connections". However, the Player Configuration settings covered in the earlier sections of the booklet are relevant to all Players and should be considered when setting up Custom connections.

Run the Player Configuration utility from the Start menu by choosing *Programs > Scala Info Channel Player 3 > Configure*

Using the InfoChannel Player Configuration utility

InfoChannel Player 3. You see the InfoChannel Player Configuration dialog.



Network options

The *Network* panel of the dialog contains options related to how the Player Engine—the Player's networking and datamanagement background task—communicates with Network Manager.

The *Point-to-Point Connection* section is where you set up the Player's job folder location on the Player side.

Receive Job Commands Via

The *Receive Job Commands Via:* pop-up lets you specify the type of access the Player has to its job folder:

Local Computer (Tutorial) – This option is for use only with the Network Manager tutorial. It sets up the Player software installed on the Network Manager machine itself to access Network Manager, a simple default provided for testing and demonstration purposes.

Using the InfoChannel Player Configuration utility

Player-Direct FTP – This option is used for InfoChannel Networks that use "Direct FTP", the standard InfoChannel connection scheme that takes advantage of the built-in FTP servers in the InfoChannel software.

When you choose *Player-Direct FTP*, you do not need to enter a site name or username—those are established automatically. All that is required is a password.

Password: – Enter a password of at least eight characters. (Only asterisks appear.) This must match the password that you gave for Server-Direct FTP in the Network Manager Edit System Settings form, as described in chapter 4 of the Network Manager User's Guide.

Confirm Password: – Enter the password again for confirmation.

Custom – This option is used for InfoChannel Networks that have special communications needs:

- You are using offsite FTP hosting
- You have an existing InfoChannel Network, and wish to retain its current communication setup
- You must use particular FTP server software for administrative reasons
- Players are accessed locally over a non-TCP/IP LAN, so using FTP is not possible

The other options you see when *Custom* has been selected involve a variety of additional factors related to more specialized InfoChannel Network configurations. They are discussed in the appendix.

The settings in the *Dial-up Options* section of this panel apply only to FTP connections. See the section on FTP dial-up connections starting on page 38 for details.

The *Logging* section of the panel has options related to how the Player reports its activity back to Network Manager.

Using the InfoChannel Player Configuration utility

Changing the amount of log information

Players write messages describing their activities to daily log

ICPlayer Note

When Direct FTP is in use, the Player logs include FTP operation messages.

files. You can specify the level of detail you want included in the Player log files, depending on whether you want to make them easier to read through, or gather further information to help you troubleshoot a problem.

Choose a level of detail from the *Activity Logging Detail* popup. The four choices, in increasing level of detail, are:

- Errors and Problems Only
- Low
- Normal
- Diagnostic

Keeping track of the Player's playback status

Because Players are generally assumed to be playing back

ICPlayer Note

Turning on this option does not automatically restore playback if it is interrupted. The best way to restart playback is for a Reboot command to be issued from Network Manager. scripts at all times, it is important to know if anything has happened to interrupt playback. The Player can be set to notice if its playback window has been closed or minimized and automatically send an alert to Network Manager if this happens. This precaution is designed to catch occasions when someone accidentally closes the playback window without restoring it.

The Alert Network Manager if the Player Is Not Running? option is on () by default. You can turn it off to avoid unnecessary alerts if a Player machine needs to be used for some purpose other than script playback.

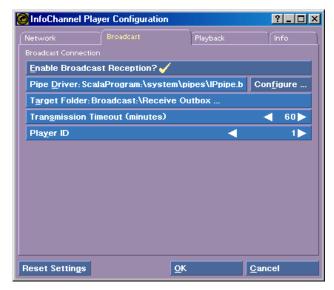
Typically the only reasons to turn this option off are if you intend to run only the Network Client and not the Player program, or you wish to allow people to use the machine for other purposes than as a Player some of the time. Running only the Network Client can be used to set up a file server for a LAN-cluster of Players; it is also a way to update a Linked Content folder for a team of designers so that they have an up-to-date representation of files on the network that they can link to.

Using the InfoChannel Player Configuration utility

Broadcast options

The *Broadcast* panel contains options that apply to Players that receive transmissions through a connection to an Info-Channel Broadcast Server. The settings on this panel are not relevant if the Player does not receive broadcast transmissions. Broadcasting is available only under Network Manager Enterprise Edition.

The initial basic configuration of a broadcast Player, as with any other Player, is done during installation of the ICPlayer software on the Player machine. Ideally, decisions about the type of connection(s) to be used by the Player should be done before installation, so that options can be set accordingly.



Enable Broadcast Reception?

Turn the *Enable Broadcast Reception?* option on (✓) if this Player is to have a broadcast connection to Network Manager.

Pipe Driver

The Player end must be configured for a particular pipe driver just as it must at the Broadcast Server end. The pipe driver configured on a Player must match the one specified on the Broadcast Server for transmissions to that Player.

Using the InfoChannel Player Configuration utility

Click the *Pipe Driver:* button to open the File dialog, allowing you to choose a pipe driver .BOK file. The following pipe drivers are shipped with the current release of InfoChannel Player 3:

- IPpipe IP multicast support
- HNSpipe Hughes satellite network support
- Filepipe a simple default pipe, useful only for testing purposes

Pipe drivers usually have their own configuration settings. When the chosen driver has configuration settings, the *Configure* button is enabled. Click this button to open a dialog where you can make settings for that pipe.

IP Pipe Configuration

Some options in the IP Pipe Configuration dialog duplicate ones that are found in the corresponding dialog seen on the Broadcast Server.



Group IP - The Group IP: setting is the multicast group IP

Broadcast Note

The *Group IP:*, *Port:*, and *Server Port:* settings for the Player available in this dialog must match those set on the Broadcast Server.

address (in the standard four-part nnn.nnn.nnn.nnn form) used by broadcast applications. The valid range is 224.0.1.0 through 239.255.255.255 inclusive. The system administrator for your TCP/IP installation must supply the proper value.

(The *Group IP*: default of 234.5.6.7 is suitable for testing purposes, but should be changed for actual use.)

Using the InfoChannel Player Configuration utility

The specification for Group IP is not Player-specific, but is common to the entire IP Multicast system. It is not related to Groups in Network Manager.

Port – Specifies the IP multicast port number that the Broadcast Server sends on, which the Players must therefore be configured to listen on.

Like the Group IP address, the *Port*: number setting must be supplied by your system administrator. The system may require a particular port number specific to your application, or you may be able to choose randomly. In any case, the port number must be unique within your system to avoid interfering with port numbers used by other applications.

The default of 8910 is suitable for testing purposes, and may be satisfactory for actual use.

Server Address – Specifies the host name or number of the Broadcast Server. This field is used only for confirmed IP multicasting. The number you enter here can be include an IP address, a phonebook entry, or both:

 If entering an IP address, the address should be entered in standard numerical IP address format (nnn.nnn.nnn).

As an alternative you can enter a host name, assuming your network is set up to map the name to the IP number.

• If entering a Windows phonebook entry, the phonebook entry name must be entered within parentheses, as in (MyPhoneBookEntry).

RAS (Remote Access Service) must be installed on this system to use a dial-up connection, and a phonebook entry must be created using the RAS phonebook.

You may use whatever name you like for a phonebook entry so long as the same name is entered here. The phonebook entry is also the place where you fill in the phone number to dial, a user name, a password, etc. The network interface IP address is obtained automatically after a connection is established with a remote access server.

 If entering a both a phonebook entry and an IP address, specify the IP address to be used by entering it after the

Using the InfoChannel Player Configuration utility

phonebook entry, as in (MyPhoneBookEntry) 192.168.0.1.

When an IP address is specified this way, the Player attempts to connect via RAS, but uses the specified IP address for communication with the Broadcast Server.

Server Port – Specifies the IP port number on which the Broadcast Server listens for incoming connections.

This field is used only for confirmed IP multicasting. You should not need to change this value unless the port number is being used by another application.

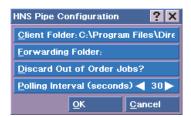
If you do change this value, the same change must be made on the Broadcast Server and all Players. You must also reset the Broadcast Server and Players before the new setting will take effect.

Number of Redial Attempts – Sets the number of times to automatically redial. This setting applies only for confirmed IP multicasting and only if this Player contacts the Broadcast Server via a dial-up (RAS) connection.

Seconds Between Redial Attempts – Sets the number of seconds the Player waits between redial attempts. This setting applies only for confirmed IP multicasting and only if this Player contacts the Broadcast Server via a dial-up (RAS) connection.

HNS Pipe Configuration

Four options are available in the HNS Pipe Configuration dialog.



Client Folder – This setting corresponds to the Destination Client: setting found in the HNS Options dialog on the Broadcast Server. It specifies the path to the folder on the Player where broadcast files are deposited by the HNS software when they are first received.

Using the InfoChannel Player Configuration utility

This folder is not the same as the Target Folder (see the section on page 26). Files received in the HNS Client Folder have yet to be "unpacked" by the Network Manager pipe driver software. Only after being processed through the pipe driver are the resulting files placed into the Target Folder. The default location for *Client Folder:* set up by the HNS VAR should not need to be changed.

Forwarding Folder – Lets you specify the UNC path to an optional folder where the Player can forward incoming package and envelope files.

This feature can be used to get broadcast transmissions to more than one Player on a network when only one Player has a receiver card.

To use this feature, the Players must be able to share files over a network shared drive or UNC path. If several Players need to share a transmission, you can set the Forwarding Folder separately on each to forward the transmission multiple times. The Player with the receiver card forwards to the second Player, the second forwards to the third, and so on.

Discard Out of Order Jobs? – When turned on (✓), this option prevents later content from being overwritten by earlier content.

The HNS broadcast transmission system does not guarantee that jobs are delivered to Players in the order the jobs were queued. This can result in jobs being delayed (possibly delivered hours later) and out of order.

The delivery system presumes that jobs will be spaced far enough apart (typically 24 hours) that the packages will be delivered in their queued order. For systems in which smaller content is being delivered more often, it is preferable that jobs that arrive out of order be discarded so that earlier jobs and content will not be received after later jobs.

With this option on, jobs and content that arrive out of order are discarded, preventing later content from being overwritten by earlier content. The negative consequence is that some jobs that are sent are never run.

This feature should be used only when all jobs are essentially the same, delivering all content with every job.

Using the InfoChannel Player Configuration utility

Polling Interval – This setting specifies the number of seconds the Player waits between each check for the arrival of new broadcast files in the Client Folder. The default of 30 seconds is not likely to need to be adjusted.

Target Folder

Target Folder: specifies the location of the folder on the Player into which files from the Broadcast Server are deposited after being processed by the selected pipe driver.

The default location is Broadcast:\Receive Outbox. To change the default, click this button to open the File dialog, where you can choose a different folder on the Player.

Transmission Timeout

Sometimes broadcast transmissions are interrupted. An interrupted transmission might be resumed, and ultimately completed, or if the connection is lost completely, the transmission might be aborted. When a transmission is aborted, the temporary files containing data already transmitted are abandoned, and remain in the Target Folder on the Player.

To prevent an accumulation of abandoned transmission files from cluttering the Player's hard drive, the ICPlayer software regularly deletes transmission files that have shown no activity for a certain period of time. That period of time is specified by the *Transmission Timeout (minutes)* control.

Using the default of 60 minutes, incomplete transmission files that have not been updated in more than an hour are deleted, and the transmission is considered to have failed.

Adjustment of the timeout value used should rarely be necessary. If the setting is changed, it must take into account the length of typical transmission interruptions for the particular installation.

Too long a timeout might allow large amounts of abandoned files to accumulate, clogging the hard disk and blocking new transmissions. Too short a timeout can prevent transmissions from resuming after brief but recoverable service interruptions.

Using the InfoChannel Player Configuration utility

Player ID

Each Player requires a unique ID number to identify it so that transmissions can be properly targeted. The ID number is set with the *Player ID* control.

The Player ID must match what was defined in the corresponding *Player ID:* text box in the New Player/Edit Player form for this Player in Network Manager (see chapter 12 of the Network Manager Enterprise Edition User's Guide).

Playback options

The contents of the *Playback* panel mirror options available on the *Playback* and *EXes* panels of the Options dialog in InfoChannel Designer 3.



The *Playback* panel lets you decide how you want scripts to play back on your system. The primary questions are whether scripts should play back in a window or fill the screen, and what display mode is used for playback.

You can choose one of two ways to make these decisions on the *Playback Mode:* pop-up, by picking either *Standard* or

Using the InfoChannel Player Configuration utility

Custom. The options below change depending on which mode you choose.

Playback Mode

Players normally use full screen playback.

- To ensure that scripts fill the screen:
- 1. Set *Playback Mode:* to *Standard*, if it is not already.
- 2. Make sure the *Play Back Full Screen?* option is on (✓).
- To keep the display mode from changing from the standard Windows setting, make sure Adapt Resolution to Script? is off.

Using Standard mode does not let you choose a specific resolution for all your scripts to play back, or a particular color depth (number of colors) or monitor refresh rate.

It may be preferable to use Custom mode to make sure to specify a particular resolution, color depth, and refresh rate. This setting is implicitly full screen, and prevents display mode switching. It has the additional advantage of letting you choose a display mode that is independent of the normal Windows display mode.

- To choose an independent display mode for full screen script playback:
- 1. Set Playback Mode: to Custom.
- 2. Click the *Full Screen Display:* button to open a display mode dialog.
- When switching to Custom mode, the dialog initially shows the current Windows display settings. Choose the size, color depth and refresh rate you prefer for script playback.

Windowed playback

Running the Player in a window is occasionally useful for testing purposes during setup and troubleshooting.

- To have the Player run in a window:
- 1. Set Playback Mode: to Standard.
- 2. Turn off Play Back Full Screen?.

Setup of Custom connections

EX options

The lower part of the *Playback* panel is devoted to EXes. EXes used by scripts must be enabled and configured just as they were on the systems from which they were authored in order to play back correctly.

When EXes that have configuration options are turned on in the *Optional EXes* column, buttons for them appear in the *EX Settings* column. Click a button in this column to display an Options dialog for that EX.

How to configure the Timing and Launch EXes, and remarks about the Scala EX system in general, can be found in chapter 15 of the "Basic Authoring" User's Guide. Configuring the optional EXes that ship with Network Manager is covered in chapter 7 of the "Extended Authoring" User's Guide. Separately-available EXes come with their own documentation.

Version information

You can view version information on the various software modules that make up the InfoChannel Player software by selecting the *Info* panel.

Resetting to defaults

You can reset the settings in the Player Configuration dialog to their defaults by clicking *Reset Settings*.

Storing your changes

When you have finished configuring this Player, click *OK* to save the changes and exit the utility.

Engine restart required

The changes you make do not actually take effect until the next time the InfoChannel Player Engine is restarted.

Setup of Custom connections

Certain tasks must be performed on the Player regardless of whether the Custom connections you use are of the FTP or Shared Folder type.

Setup of Custom connections

Chief among these tasks are:

- Creating job folders
- Creating accounts and assigning account privileges

InfoChannel Network Manager Note

All Players must use the same type of Custom point-to-point connection—either FTP or Shared Folder—to Network Manager. (A Player can have a broadcast connection as well as, or instead of, either type of Custom point-to-point connection.)

Creating Player job folders

Every Player needs its own unique job folder.

In InfoChannel Networks that use Direct FTP connections, job folders are created automatically. When you are using Custom connections, you need to create job folders for Players manually.

To add any additional Players to a system that uses Custom connections, you must create their job folders yourself in Windows

Job folder location

The job folders can be located anywhere that is accessible both to Network Manager and to the Players—on the Network Manager machine, on a separate file server, or on the Players themselves. The directions in this booklet assume you are creating job folders on the Players.

For simplicity and ease of administration, it is best to stay consistent in locating the job folders. Create all your Player job folders in the same location on all Players.

For a job folder accessed by FTP, it is recommended that you put the job folder within the folder that is the FTP root for the Player machine. This location will vary depending on the FTP server you are using. For an IIS FTP system configured according to the default installation recommendations, that location is

<systemroot>:\Inetpub\Ftproot

Setup of Custom connections

A Player that will not use FTP does not need to have its job folder within the FTP root. The location of the job folder in this case is not as critical, but a good place is the Player's equivalent of the Network Manager default location:

<systemroot>:\Documents and Settings\All Users\Documents\Scala\Network Transmission\Outbox

In either case, follow these steps:

- 1. In Windows Explorer, select the folder within which you wish to create the new job folder(s) (Outbox or Ftproot, if you are using the above examples).
- 2. From the Explorer File menu, choose *New > Folder*.
- Give the new folder a name.
 - When you are creating the job folder on the Player machine itself, a name like "Inbox" is sufficient because there is only one job folder in that location.
- 4. Repeat steps 1–3 for each Player machine in your Info-Channel Network, giving each a name.

Creating accounts

In order for communication through the InfoChannel Network to be secure, the participants at either end must have their identities authenticated before a connection is established. FTP authentication is handled through username/password identities; for Shared Folder authentication by the creation of Windows user accounts with appropriate privileges. (In IIS, FTP usernames are also linked to Windows user accounts.)

The descriptions given here use "NetManager" as the username or account name to identify Network Manager, and "ICPlayer" as the username or account name to identify any Player. You do not need to use these particular names. The important thing is that they be descriptive, and that they match on both ends of the connection.

Network Manager should be running under its "NetManager" user account at all times. Players should be running under their "ICPlayer" user account at all times. These should be Administrator-level accounts for full InfoChannel functionality to be available.

Setup of Custom connections

Authentication needed using Custom FTP

The following table shows what needs to be set up for authentication on the Player end of given types of Custom FTP accesses:

FTP Access	Needed on Players
NM deposits jobs in job folders on Player	FTP server must allow user "NetManager" to log in and access the job folder
Players poll job folders on Network Manager	an "ICPlayer" username set up in Player Config utility FTP login dialog
Players retrieve or deposit files from NM	no setup on Players required (the username/password for Players to use is sent to them encrypted within job files)
Players retrieve or deposit files from remote FTP server	no setup on Players required (the username/password for Players to use is sent to them encrypted within job files)

(passwords that accompany matching usernames must match at both ends)

Authentication needed using Custom Shared Folder

The following table shows what needs to be set up for authentication on the Player end of given types of Custom Shared Folder accesses:

Share Access	Needed on Players
NM deposits jobs in job folders on Player	Job folder must be a share Windows must allow user "NetManager" read/write/modify access to the job folder
Players poll job folders on Network Manager	an "ICPlayer" Windows user account
Players retrieve or deposit files from NM	an "ICPlayer" Windows user account

(matching user accounts must exist at both ends)

Choosing single or multiple Player accounts

Both FTP and Shared or Local Folder installations can use a single generic "ICPlayer" account. The above tables indicate the use of a generic ICPlayer account.

Custom connection setup: FTP access

However, with a Shared or Local Folder installation, the perfolder permission capability of Windows' NTFS 5 lets you set up unique accounts for each Player. This allows individualized access rules for each Player job folder for greater security and flexibility.

To do this, you need to create multiple Windows user accounts on Network Manager, one for each Player, each with its own username and password. You would need to know the usernames and passwords to be used for each Player in order to create the accounts on Network Manager. Then you would configure each Player's job folder with the desired permissions.

If using multiple Player accounts, you may wish to wait to perform that process until after you have completed the setup on the Player machines, where you will also be creating the account for each.

Setting folder privileges

Setting the appropriate account privileges on the folders that InfoChannel uses for communication is a crucial step in allowing the InfoChannel Network to function. Running with incorrectly set privileges is a common source of operational problems and security risks.

Regardless of the type of connection you use, make sure that the Players' job folders grant read/write/modify access to the "NetManager" user and the "ICPlayer" user.

You typically set folder privileges for FTP connections by using the FTP server configuration software. (Under IIS, user-specific privileges are defined using Windows Explorer, in the *Security* panel of the Properties sheet for a given folder.)

Account privileges for Shared Folder connections are all defined using Windows Explorer, in the *Security* panel of the Properties sheet for a given folder.

Custom connection setup: FTP access

Important data you need to know before you start is the FTP login information: the root or home directory address of the

Custom connection setup: FTP access

FTP server you will be using, with its username and password.

The address is likely to be the FTP root address of the Network Manager machine. When you are using remote FTP hosting, it is the address of the remote host. Note that if you are using an offsite FTP hosting service, you will need to get this login information from them, and they may not allow you to choose custom usernames such as "NetManager" and "ICPlayer".

InfoChannel Configuration Note

If you are planning to have the Player use FTP dial-up in either direction (from Network Manager to Player or from Player to Network Manager), you also need to consult the section "Dial-up FTP access configuration" on page 38.

FTP setup on each Player

The steps in this section must be done on each Player machine you intend to use with a Custom FTP connection.

Step 1: Enable FTP

Players that will poll remotely-located job folders by FTP need not function as FTP servers.

If your installation is configured with the Player's job folder on the Player machine itself, rather than located remotely, and the Network Manager will access the folder by FTP, then you do need to enable FTP on the Player and configure the machine as an FTP server.

Step 2: Disable Anonymous access

For the security of your network, it is crucial that you disable anonymous FTP access to the Player. If this step is omitted, an error message noting the fact is logged for the system at a regular interval until this vulnerability is corrected.

Step 3: Establish the FTP root

Setup tasks and general administration are simpler if you leave the FTP root at its default, and Scala recommends that

Custom connection setup: FTP access

you do so if you have no compelling reason to change it. If you will retain the default, just verify that the root folder can be written to.

However, if for example you want to have the FTP root on a drive different from the Windows drive, you need to change the root location.

Step 4: Edit accounts and permissions

- 1. Disable the Guest user account in Windows. This is necessary to prevent ignorant or malicious users from gaining access to the Player FTP server.
- 2. Create and configure the Player's user account on the Player. If you have followed the account setup suggestions given previously (see page 32), this would be "ICPlayer". For all job functions to be available, this should be an Administrator-level account. The ICPlayer account is what the Player uses when it contacts Network Manager.
- 3. If the Player job folder is located on the Player, you must also create an account to allow Network Manager to log in to the Player. If you have followed the account setup suggestions given previously (see page 32), this would be "NetManager".
- 4. Add the ICPlayer user to the FTP root on this machine so that it has Read/Write and Modify access.
- If the Player job folder is located on the Player, add the NetManager user to the FTP root on this machine so that it has Read/Write and Modify access.

Step 5: Point the Player to an FTP job folder

You need to use the InfoChannel Player Configuration utility to tell the Player how to reach its job folder.

(There is no need to explicitly tell the Player how to reach the Transmission Workspace—Network Manager includes that information within the job files.)

- 1. Run the InfoChannel Player Configuration utility on the Player machine you are setting up.
- 2. In the *Network* panel of the utility, choose *Custom* from the *Receive Job Commands Via:* popup.

Custom connection setup: FTP access

- Choose how the Player gets to its job folder. The choice you make depends on whether the job folder is local or remote.
 - If the Player's job folder is remote—located on Network Manager or on a remote FTP host—choose FTP from the Player's Job Folder: pop-up list.

You see the FTP Folder: button and the Job Polling Interval control below the pop-up.

If the Player's job folder is local—located on the Player or on another machine local to the Player choose Local or Shared Folder from the Player's Job Folder: pop-up list.

You see the *Folder:* button below the pop-up.

Important

Don't confuse this connection with other connections in the Custom FTP scheme.

Choosing Local or Shared Folder here does not affect, or need to match, how the Player contacts the Transmission Workspace. That is set to be FTP on Network Manager's **System Settings** page.

Nor does it need to match how Network Manager reaches the job folder—that is specified in Network Manager's Player definition.

In this Step, only FTP job folder access is covered. See the description for Shared Folder access starting on page 45 if the job folder is local.

Custom connection setup: FTP access

4. Click the *FTP Folder:* button to open a dialog that lets you enter the FTP login information that this machine would use to access its job folder.



URL: – Enter the FTP address where the job folder is located. The address should include the FTP server address and the path to the job folder from the FTP root. (You need to have set the FTP root appropriately, as described in the Network Manager User's Guide.)

For example:

ftp://192.168.0.10/Outbox/LobbyPlayer

OR

ftp://ICNMserver.com/Outbox/LobbyPlayer

OR, if using offsite FTP hosting

ftp://OffsiteServerCo.com/Customerftp/YourCo/Network Transmission/Outbox/LobbyPlayer

User Name: – Enter the username needed to gain access to the FTP server. If you have followed the setup recommendations (see page 32), this would be "ICPlayer".

Dial-up FTP access configuration

Password: – Enter the password needed for the username. (Only asterisks appear.) Passwords are case-sensitive.

This must match the password entered for the ICPlayer account that was created on the FTP server.

Confirm Password: - Enter the password again for confirmation.

 Click OK to exit the FTP login dialog. The FTP address entered appears in the FTP Folder: button with the user name embedded in it like this:

ftp://ICPlayer@ICNMserver.com/Outbox/LobbyPlayer

Set the polling interval using the *Job Polling Interval* control.

The Player regularly polls (checks its job folder) for pending jobs. The *Job Polling Interval* control lets you specify how many minutes the Player waits between each check.

You can adjust the interval value from the default if necessary to balance the timeliness of Players receiving their jobs against the bandwidth/cost constraints of the network's FTP connection. An interval of 1-5 minutes is appropriate when the FTP connection is made via a direct connection to the Internet. For a dial-up connection, an interval of 30 minutes or more is recommended.

Note that using FTP dial-up requires important additional configuration tasks in Windows. See the following section for details.

Dial-up FTP access configuration

FTP communications in an InfoChannel Network can use modems rather than Ethernet cards, by taking advantage of the dial-up networking (RASdial) capabilities in the Windows operating system.

Using dial-up FTP requires the same basic setup steps as FTP via LAN/Internet—enabling the FTP server on the receiving end, creating user accounts and setting appropriate permissions—plus some additional steps.

Dial-up FTP access configuration

The additional steps required to configure FTP dial-up are mainly a matter of creating connections in Windows Dial-up Networking. The steps you need to follow are different depending on whether the InfoChannel Network is configured with job folders on the Players themselves, or on the Network Manager machine.

Dial-up FTP with job folders on the Player

Follow the steps in this section if your InfoChannel Network is configured with job folders on the Players themselves. If Player job folders are located on the Network Manager machine, skip to "*Dial-up FTP with job folders on NM*" on page 41.

Step 1: Create a connection on Network Manager

If Network Manager will be delivering job files to a job folder on the Player through a dial-up connection (RASdial) rather than through a direct Internet connection, you need to create a specially-named connection on the Network Manager to dial the Player.

This procedure is covered in the appendix of the Network Manager User's Guide.

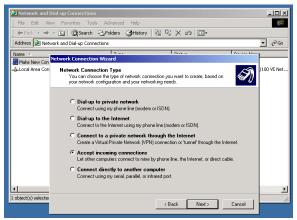
Step 2: Create an Incoming connection on Player

On the Player, you need to create an Incoming connection to accept Network Manager's communication.

- From the Player's Start menu, choose Settings > Control Panel.
- 2. Open Network and Dial-up Connections.
- 3. Double-click *Make New Connection* to open the Make New Connection Wizard and click *Next*.

Dial-up FTP access configuration

4. For Network Connection Type, choose Accept incoming connections and click Next.



- Select the modem device that the Player uses for communication and click Next.
- 6. Under *Incoming Virtual Private Connections*, select the *Do not allow* option and click *Next*.
- 7. For *Allowed Users*, select the accounts to which you wish to give incoming connection access on the Player.

One of these should be the "NetManager" account you created in sub-step 3 on page 35. You may also wish to enable an Administrator account for maintenance purposes. Generally, the number of allowed users should be as few as needed, to reduce security vulnerability.

Click Next.

8. Under *Networking Components*, be sure that at least *Internet Protocol (TCP/IP)* is turned on. *File and Printer Sharing for Microsoft Networks* is a security risk and should be left off.

If your Player is connected to a LAN, you should disallow incoming caller access to the network for security reasons.

- a. Select Internet Protocol and click Properties.
- b. In the Incoming TCP/IP Properties sheet, turn off *Allow callers to access by local area network.* The

Dial-up FTP access configuration

DHCP address assignment option should be selected.

- c. Click OK.
- d. Click Next.
- 9. Click Finish.

You see "Incoming Connections" listed as a connection in the Player's Network and Dial-up Connections window.

Dial-up FTP with job folders on NM

Use these steps if Player job folders are located on the Network Manager machine and Players access them via dial-up to an ISP.

InfoChannel Configuration Note

This procedure assumes that you have a modem connected to your Player system and properly configured in Windows. You also must have an ISP account that offers dial-up service, with the dial-up phone number, account username, and password handy.

Step 1: Turn off auto-dial

You need to configure the Player's Internet properties to not use system-wide auto-dialing, since the Player handles the dialing.

- 1. Right-click on the Internet Explorer icon on the Player desktop, or choose *Tools > Internet Options* in Internet Explorer itself.
- 2. In the Internet Properties sheet, go to the *Connections* panel.
- 3. Select Never dial a connection.
- 4. Click *OK* exit the Internet Properties sheet.

Step 2: Create the dial-up connection on the Player

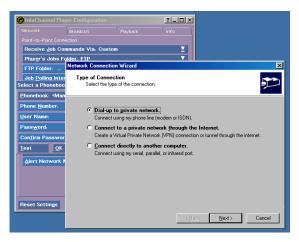
1. Run the InfoChannel Player Configuration utility on the Player machine you are setting up.

Dial-up FTP access configuration

- 2. On the *Network* panel, turn on (✓) the *Connect Using Dial-up?* option.
- 3. Click the *Dial-up Connection:* button to open the Select a Phonebook entry dialog.
- 4. If a Windows Phonebook entry has already been set up to dial the Internet, select its name from the *Phonebook:* pop-up and skip to "Step 3: Adjust connection options".

Assuming you have not already created a Windows Phonebook entry to dial the Internet, you have two choices: you can create a phonebook entry now using the Windows Wizard, or you can create a simple dialing connection right in this dialog.

Phonebook entry – To create a phonebook entry, click Add. This opens the Windows Network Connection Wizard.



- a. For Type of Connection, choose Dial-up to private network and click Next.
- b. For *Phone Number to Dial*, enter your Internet service provider's dial-up access number.
- c. Click Next.
- d. For Connection Availability, select Only for myself and click Next.

Dial-up FTP access configuration

- e. In the final dialog, give the connection a name and click *Finish*.
- f. Skip to "Step 3: Adjust connection options".

Simple dialing connection – To use a simple dialing connection:

- a. Choose *<Manual>* in the *Phonebook:* pop-up. This enables the text boxes below.
- b. Enter the number to dial for the Internet in the *Phone Number:* box.
- Enter the Internet service provider's required login information in the *User Name*: and *Password*: boxes. Passwords are case-sensitive.
- d. Enter the password again in the *Confirm Password:*

The Player should now be set up to dial the ISP that provides the Internet service for this Player.

The information entered in the *FTP Folder:* button dialog in the Player Config utility is used to connect to an account at the FTP host, from which the FTP connection to the Network Manager machine can be established.

Step 3: Adjust connection options

The *Redial Attempts*, *Seconds Between Attempts*, and *Idle Time Hang Up* options in the lower section of this panel have default values that should work well in most cases.

If you have reason to expect that the Player will have problems connecting or remaining connected, you may want to modify these values.

Step 4: Test the connection

The last thing to do is to test the dial-up connection.

- 1. Click the *Test* button.
- 2. This should cause the Player to dial the ISP, connect, and display a success dialog. If you see a dialog saying a connection could not be established instead, review your settings to try to diagnose the problem.

Custom connection setup: Shared Folder access

You can adjust the settings of a phonebook connection by clicking the *Edit* button to open the Windows connection settings dialog.

Custom connection setup: Shared Folder access

The setup process for Local and Shared Folder access is less complex than for FTP access. Many of the same basic steps still need to be performed, however.

For the steps that are the same in both FTP and Shared Folder setup, consult the FTP setup section of this appendix. The procedures and incidental remarks that are no different are not repeated.

Note that if the LAN on which you are setting up this Info-Channel Network does not support TCP/IP-style addressing (through IP number or DNS hostname), then the Health Monitoring feature will not be available for the Network. Health Monitoring requires that type of addressing for its communication tasks.

Shared Folder setup on each Player

The tasks in this section must be done on each Player machine you intend to use with a Custom Shared Folder connection.

Step 1: Edit accounts and permissions

- 1. In order for the system to be secure, you need to disable the Guest user account in Windows. This is necessary to prevent ignorant or malicious users from gaining access to the Player.
- Create and configure the ICPlayer user account on the Player. For all job functions to be available, this should be an Administrator-level account. The ICPlayer account is what the Player uses when it contacts Network Manager. The Player needs to be running under the ICPlayer account for access to the share on Network Manager.
- 3. If the Player job folder is located on the Player, you must also create a NetManager account to allow Network Manager to access the Player. Network Manager needs to be running under the NetManager account for access to the share on the Player.

Custom connection setup: Shared Folder access

- Add the ICPlayer user to the Network Transmission folder on this machine so that it has Read/Write and Modify access.
- If the Player job folder is located on the Player, add the NetManager user to the Network Transmission folder on this machine so that it has Read/Write and Modify access.

Step 2: Point the Player to a shared job folder

You need to use the InfoChannel Player Configuration utility to tell the Player how to reach its job folder.

(There is no need to explicitly tell the Player how to reach the Transmission Workspace—Network Manager includes that information within the job files.)

- 1. Run the InfoChannel Player Configuration utility on the Player machine you are setting up.
- 2. In the *Network* panel of the utility, choose *Custom* from the *Receive Job Commands Via:* popup.
- From the Player's Job Folder: popup, choose Local or Shared Folder.

With this setting, the Player polls its job folder directly over the network, using a path that you specify.

Configuration Note

If you cannot access the job folder through Network Neighborhood in the File dialog, the folder needs to be made Shared. This works with the job folder on the Network Manager machine if that folder is a network share (a Shared folder), or if the job folder is located on the Player itself (a Local folder).

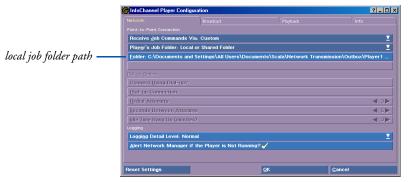
When you choose *Local or Shared Folder*, you see the *Folder*: button below the popup.

- Click Folder: to open the File dialog, and navigate to the location that you defined in Network Manager for the Player job folder.
- 5. Click *OK* to close the File dialog.

You should see the path to the folder in either local or UNC format. (The Player Configuration window can

Miscellaneous Player issues

be widened if necessary so that you can see all of a long path at once.)



For example, for a local job folder you created on the Player itself:

C:\Documents and Settings\All Users\Documents\Scala\Network Transmission\Inbox

or a shared job folder you created on Network Manager in its Outbox folder:

 $\verb|\ICNM| Server \end{tabular} I ransmission \end{tabular} Outbox \end{tabular} Lobby-Player$

Dial-up settings are used only with FTP connections, so the *Dial-Up Options* settings are disabled when *Local or Shared Folder* is selected.

Miscellaneous Player issues

Virus scanning on Players

Although the use of virus scanning software is strongly recommended for security maintenance in an InfoChannel Network installation, Scala does *not* recommend that such software be installed on Players.

Testing by Scala has shown that even virus scanning products by the most reputable companies are a stability hazard on computers for which 24-hour, 7-day-a-week reliability is crucial.

The first line of defense in preventing virus infection of Players is simply not allowing them to become compromised:

Miscellaneous Player issues

- Players should remain dedicated systems, never used for email, Web surfing, or other high-risk activities
- Software other than Windows and InfoChannel Player software should be installed on a Player only if absolutely necessary, and should be scanned before installation
- The Network Manager workspace folder should be frequently virus-scanned, so that all files transmitted to Players are verified as clean

Scala does recommend that Player machines be scanned for viruses periodically. Ideally, the scan should be done from a virus scanner running on a remote machine with a network connection to the Player.

If remote scanning is not possible, virus checking software should be *temporarily* installed on the Player. After being used to perform a thorough scan, the virus software should then be uninstalled from the Player.

Player software and Windows services

You should be aware that the message dialog boxes that can be put up by certain standard Windows services can disrupt Player operation. For example, the Messenger service puts up dialogs for certain events.

When the Player is running a script in full-screen mode, as it normally is, it must be "switched out" to allow the dialog box to appear, interrupting normal playback.

The InfoChannel Player software attempts to intercept as many system dialogs as possible, but not every situation can be anticipated. A system administrator knowledgeable in Windows should disable services that may cause disruptive dialogs. For operation as a Player, many standard services are not necessary.

The following services, at a minimum, should be disabled on dedicated Player machines:

- Alerter service
- Indexing service
- Messenger service

Miscellaneous Player issues

If a problem service cannot be disabled, achieving non-interruptible playback requires finding a way to prevent the dialog boxes from having to appear.

Windows event log overflow

It is possible for a PC to freeze if its Windows event logs fill up and no further events can be recorded.

To prevent this from happening, the Windows System, Application, and Security logs on all Players should be set so that the oldest events are overwritten when the log becomes full:

- 1. Open the Event Viewer.
- 2. Right-click on the System log and choose *Properties*.
- 3. In the Properties sheet, make sure that *Overwrite events* as needed is selected.
- 4. Click OK.
- 5. Repeat steps 2–4 for the Application and Security logs.
- 6. Close Event Viewer.